

NUMBER  <b>GS-20-0684</b>	TYPE  <b>General Application Specification</b>	<b>Amphenol ICC</b>	
TITLE  <b>BarKlip BK200 connector</b>		PAGE  1 of 4	REVISION  A
		AUTHORIZED BY  Sam Wu	DATE  Dec 09, 2021
		CLASSIFICATION  <b>UNRESTRICTED</b>	

## 1.0 OBJECTIVE

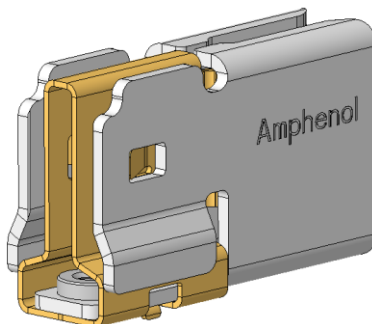
This specification provides information and requirements regarding customer application of BarKlip BK200 connector. This specification is intended to provide general guidance for application process development. It is recognized that no single application process will work under all customer scenarios and that customers will develop their own application processes to meet their needs. However, if these application processes differ greatly from the one recommended, AICC cannot guarantee results.

## 2.0 SCOPE

This specification provides information and requirements regarding customer application of BarKlip BK200 connector. These connectors provide a means of bringing high current from Bus bar conductors to Bus bar.

## 3.0 GENERAL

This document is meant to be an application guide. If there is a conflict between the product drawings and specifications, the drawings take precedence.



**Figure 1 BK200 Connector**

## 4.0 DRAWINGS AND APPLICABLE DOCUMENTS

- AFCI PRODUCT SPECIFICATION: GS-12-1669
- AFCI PRODUCT DRAWINGS: 10157266

Product drawings and AFCI's GS-12-1669 Product Specification are available at [www.amphenol-icc.com](http://www.amphenol-icc.com). In the event of a conflict between this application specification and the drawing, the drawing will take precedence. Customers are advised to refer to the latest revision level of AFCI product drawings for appropriate details.

## 5.0 APPLICATION REQUIREMENTS

### 5.1 General application

Blind mate: Connector can handle adverse tolerances and allow reliable mating to misaligned Bus bar.

Bus bar misalignment:  $\pm 3.0$  mm.

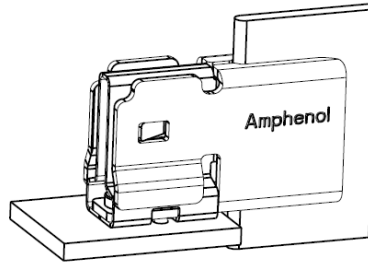
Mates directly to a single pole power Bus Bar

Ideal for high current Bus Bar power supply/distribution applications

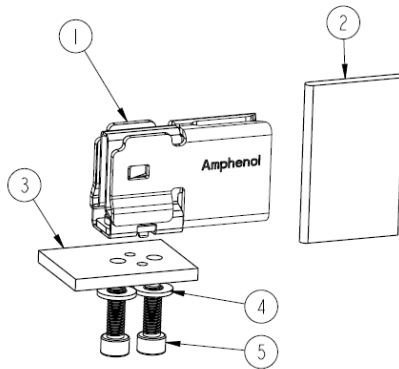
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## 5.2 Connector assembled part

The assembled picture of BK200 mated with mating Bus-bar and mounting Bus-bar is shown in following:



The detail assembled components are shown in following:



S. NO	DESCRIPTION	QTY	REMARK
1	BK200 connector	1	Supplied by Amphenol
2	Mating Bus-bar	1	Supplied by the customer
3	Mounting Bus-bar	1	
4	Washer	2	
5	#6-32 Screw	2	

## 5.3 Connector mating part(Bus bar)

The Bus bar Power Conductors shall comply with the following requirements:

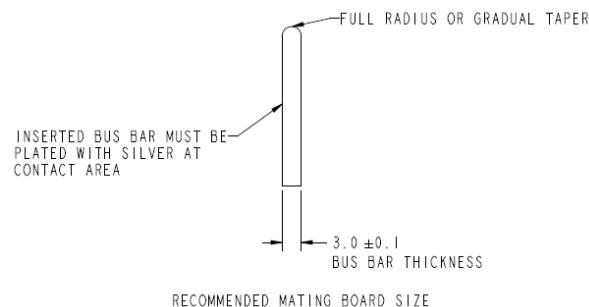
Recommended material: C11000, solid blade

Material Thickness:  $3.0 \pm 0.1$  mm

Surface roughness in contact area: Ra 1.6  $\mu$ m maximum

Plating in contact area: 3  $\mu$ m min Silver over 1.27  $\mu$ m min Nickel

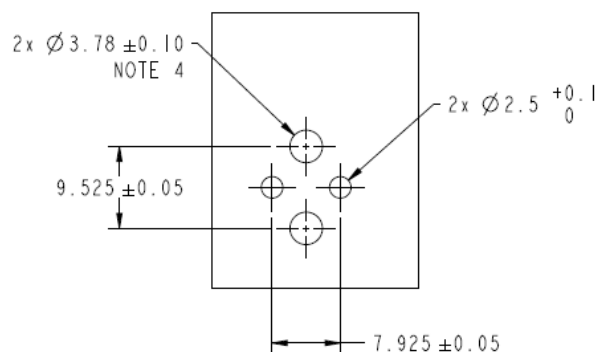
Mating edges: full radius or gradual taper



## 5.4 Connector mounting Bus bar

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Recommended mounting Bus bar is shown in following:



**Recommended Mounting Busbar Layout  
With Thickness 3.0mm**

## 5.5 Connector fixing part

### a. Screw

Recommended screw is shown in following:

#6-32 screw, torque: 1.1 N·m

### b. Washer

Recommended washer is shown in following:

Washer, internal diameter: 4.0mm, outside diameter: 8.0mm, thickness: 1.0 mm

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## 6.0 RECORD RETENTION

<u>REV</u>	<u>PAGE</u>	<u>DESCRIPTION</u>	<u>EC#</u>	<u>DATE</u>
A	All	Initial release	N/A	01/06/2022